

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A fluidized bed pulverizing and classifying apparatus comprising:

a vessel comprising[[:]],

a pulverizing section comprising a pulverizing nozzle configured to spray compressed air to pulverize a powder[[:]],

a classifying section located over the pulverizing section, the classifying section comprising a classifying rotor configured to classify the powder[[:]], and a fluidized bed[[:]]; and

an air supplier configured to supply secondary air, wherein a flow rate Q_2 of the secondary air and a flow rate Q_1 of the compressed air of the pulverizing nozzle satisfy the following relationship:

$$\frac{Q_1}{20} \leq Q_2 \leq \frac{3Q_1}{20}.$$

Claim 2 (Canceled)

Claim 3 (Currently Amended): The fluidized bed pulverizing and classifying apparatus of Claim 1, wherein a supplying pressure [[P]] of the secondary air in the fluidized bed pulverizing and classifying apparatus is controlled such that a pressure P in the fluidized bed pulverizing and classifying apparatus satisfiesto satisfy the following relationship:

$$-10 \text{ kPa} \leq P \leq 3 \text{ kPa}.$$

Claim 4 (Original): The fluidized bed pulverizing and classifying apparatus of Claim 1, wherein the air supplier supplies the secondary air in a direction tangential to a center of the vessel.

Claim 5 (Original): The fluidized bed pulverizing and classifying apparatus of Claim 1, wherein the air supplier vertically and intermittently sprays the secondary air from the bottom of the vessel toward the fluidized bed and the classifying rotor through the pulverizing section.

Claim 6 (Original): The fluidized bed pulverizing and classifying apparatus of Claim 5, wherein the fluidized bed is located below the pulverizing nozzle.

Claim 7 (Original): The fluidized bed pulverizing and classifying apparatus of Claim 1, further comprising:

a pressure gauge configured to measure a pressure in the vessel, wherein the flow rate of the secondary air is configured to be controlled based on said pressure on said vessel; and
a flowmeter located at an exit of the pulverized powder and configured to measure and control an amount of air discharged from the exit.

Claim 8 (Currently Amended): A method of pulverizing and classifying a powder in an method comprising apparatus having a vessel with a pulverizing nozzle in a pulverizing section, a classifying section with a classifying rotor disposed over the pulverizing section, a fluidized bed, and an air supplier configured to supply a secondary air, the method comprising:

spraying compressed air from ~~a~~the pulverizing nozzle to pulverize ~~a~~the powder in a the vessel while supplying secondary air from the secondary air supply there into~~thereinto~~;
and

classifying the pulverized powder with ~~a~~the classifying rotor in the vessel, wherein a
flow rate Q_2 of the secondary air and a flow rate Q_1 of the compressed air of the pulverizing
nozzle satisfy the following relationship:

$$\frac{Q_1}{20} \leq Q_2 \leq \frac{3Q_1}{20}.$$

Claim 9 (New): The method of Claim 8, wherein a supplying pressure of the secondary air in the fluidized bed pulverizing and classifying apparatus is controlled such that a pressure P in the fluidized bed pulverizing and classifying apparatus satisfies the following relationship:

$$-10 \text{ kPa} \leq P \leq 3 \text{ kPa}.$$

Claim 10 (New): The method of Claim 8, wherein the air supplier supplies the secondary air in a direction tangential to a center of the vessel.

Claim 11 (New): The method of Claim 8, wherein the air supplier vertically and intermittently sprays the secondary air from the bottom of the vessel toward the fluidized bed and the classifying rotor through the pulverizing section.

Claim 12 (New): The method of Claim 11, wherein the fluidized bed is located below the pulverizing nozzle.

Claim 13 (New): The method of Claim 8, wherein the apparatus further comprises:
a pressure gauge configured to measure a pressure in the vessel, the flow rate of the secondary air being configured to be controlled based on said pressure on said vessel; and
a flowmeter located at an exit of the pulverized powder, the flowmeter being configured to measure and control an amount of air discharged from an exit of the apparatus.

Claim 14 (New): A method of pulverizing and classifying a powder in an apparatus having a vessel with a pulverizing nozzle in a pulverizing section, a classifying section with a classifying rotor disposed over the pulverizing section, a fluidized bed, and an air supplier configured to supply a secondary air, the method comprising:

spraying compressed air from the pulverizing nozzle to pulverize the powder in the vessel while supplying secondary air from the secondary air supply there into; and

classifying the pulverized powder with the classifying rotor in the vessel, wherein a supplying pressure of the secondary air in the fluidized bed pulverizing and classifying apparatus is controlled such that a pressure P in the fluidized bed pulverizing and classifying apparatus satisfy the following relationship:

$$-10 \text{ kPa} \leq P \leq 3 \text{ kPa}.$$

Claim 15 (New): The method of Claim 14, wherein a flow rate Q_2 of the secondary air and a flow rate Q_1 of the compressed air of the pulverizing nozzle satisfy the following relationship:

$$\frac{Q_1}{20} \leq Q_2 \leq \frac{3Q_1}{20}.$$

Claim 16 (New): The method of Claim 14, wherein the air supplier supplies the secondary air in a direction tangential to a center of the vessel.

Claim 17 (New): The method of Claim 14, wherein the air supplier vertically and intermittently sprays the secondary air from the bottom of the vessel toward the fluidized bed and the classifying rotor through the pulverizing section.

Claim 18 (New): The method of Claim 17, wherein the fluidized bed is located below the pulverizing nozzle.

Claim 19 (New): The method of Claim 14, wherein the apparatus further comprises:
a pressure gauge configured to measure a pressure in the vessel, a flow rate of the secondary air being configured to be controlled based on said pressure on said vessel; and
a flowmeter located at an exit of the pulverized powder, the flowmeter being configured to measure and control an amount of air discharged from an exit of the apparatus.